

MUTITM WAVE

Semiconductor Ultrasound Technology

Lateral - Rhythmic Scanning Focus
by Low-frequency Vibration

Advanced Core Technology — 3 Modes, 1 Head



①

PRECISION FOCUS TIP

Sequential — Non-thermal Multi-depth Focus Control

US PATENT
REGISTERED

Deliver precise stimulation across multiple skin depth layers through beam convergence. Direct energy delivery to support the skin's foundation appearance.



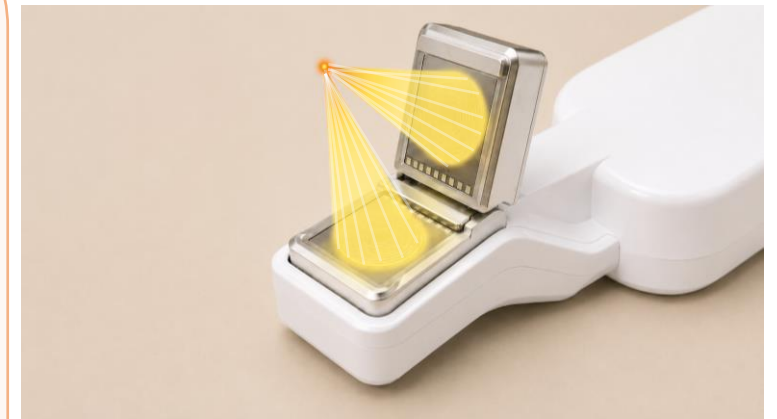
②

NOVEL ADVANCED STIMULATION

Lateral — Rhythmic Scanning Focus by Low-frequency Vibration

PATENT
PENDING

Focused vertical delivery with lateral wide diffusion.
Optimized micro-massage for a refined jawline and neck feel.



③

ADVANCED CROSSBEAM FOCUSING

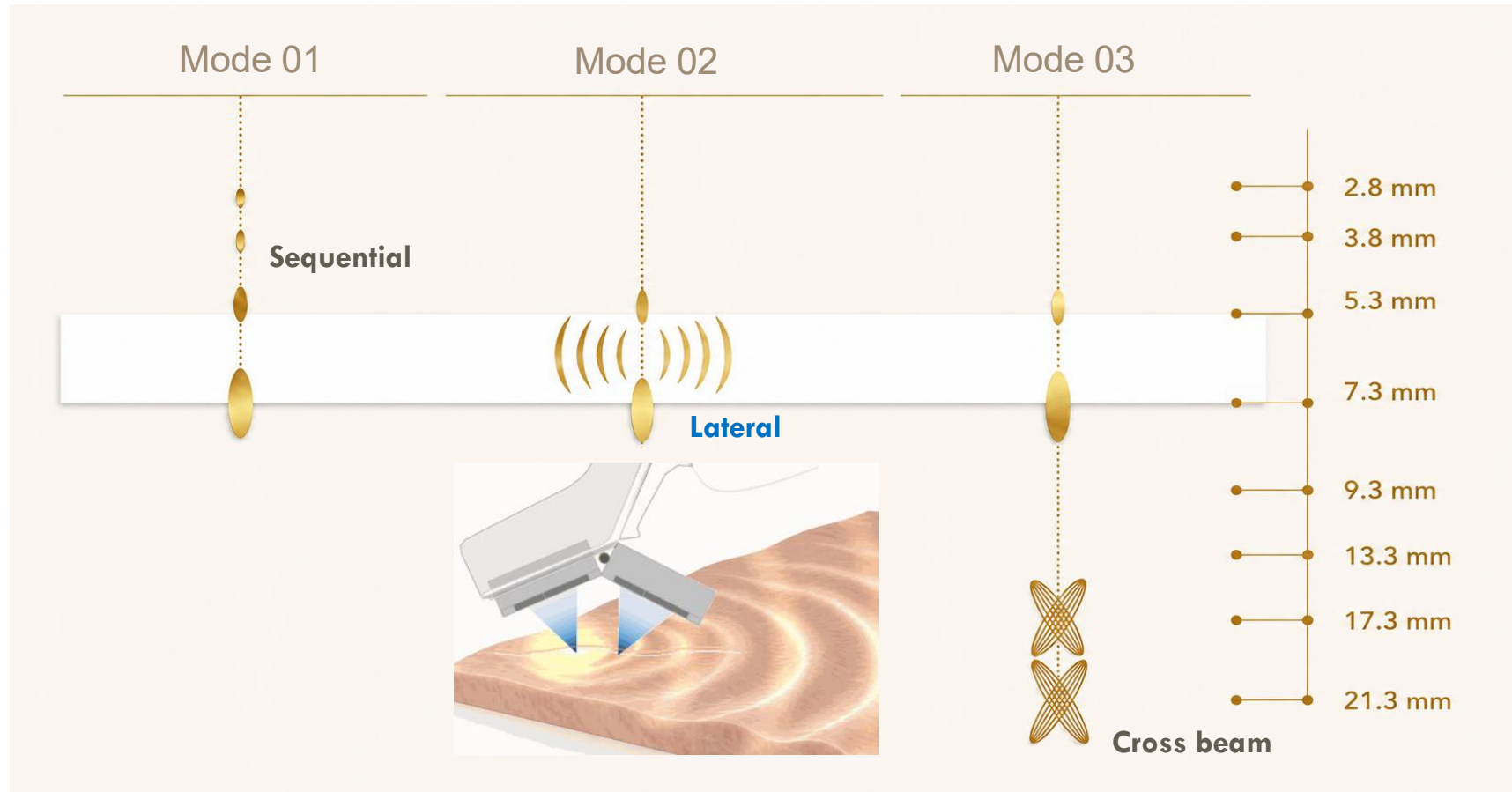
Cross — Crossbeam Precision for Deep Layer

US PATENT
Application

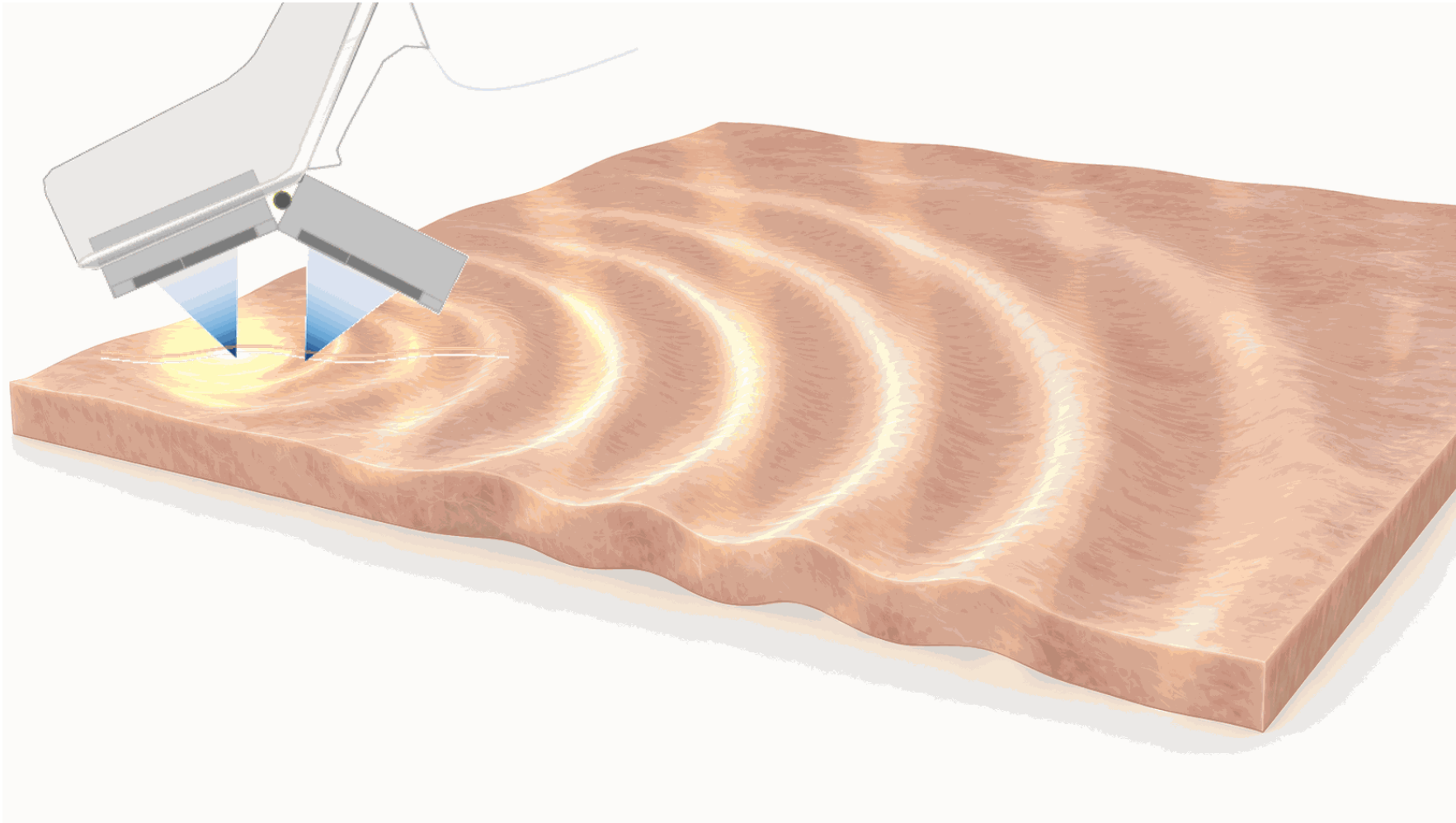
Precise targeting at deeper layers through beam convergence. Enhanced energy concentration at focal points.

3 Modes Focus Mapping via Sequential, **Lateral**, Cross

along natural facial & body lines for an optimized, relaxing beauty routine.

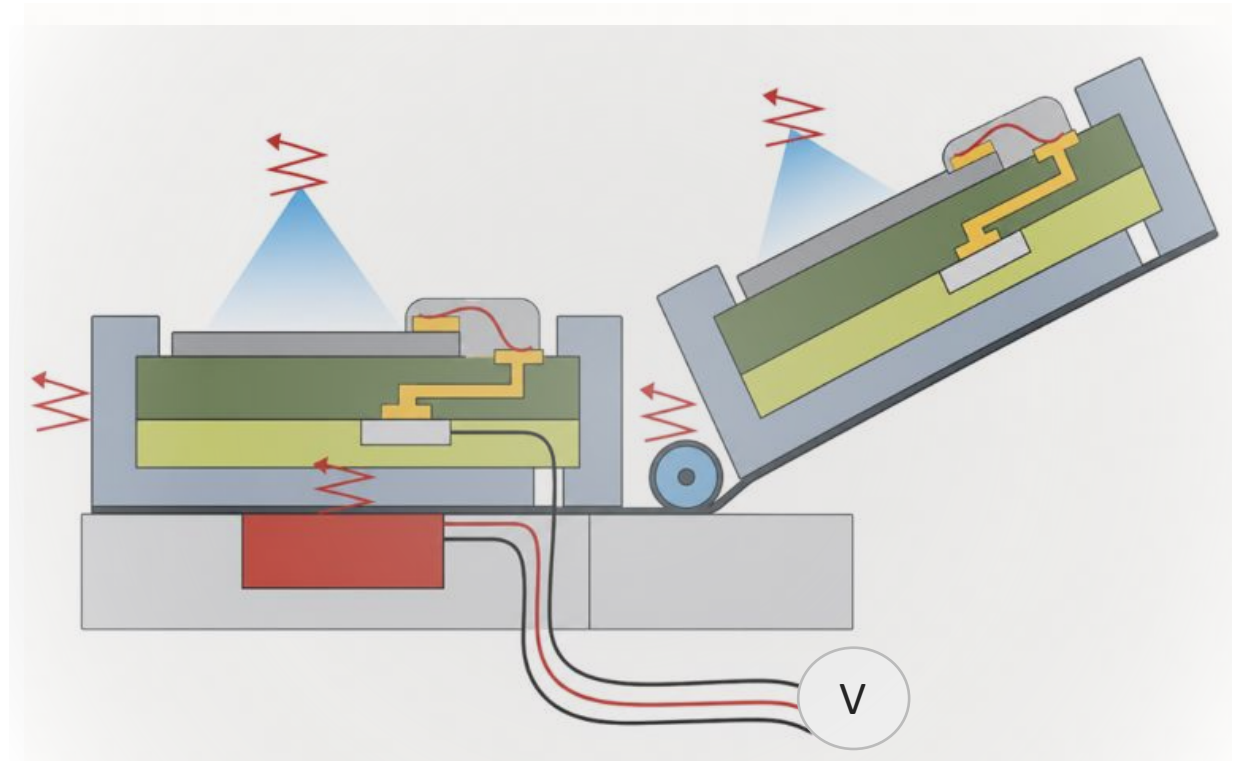
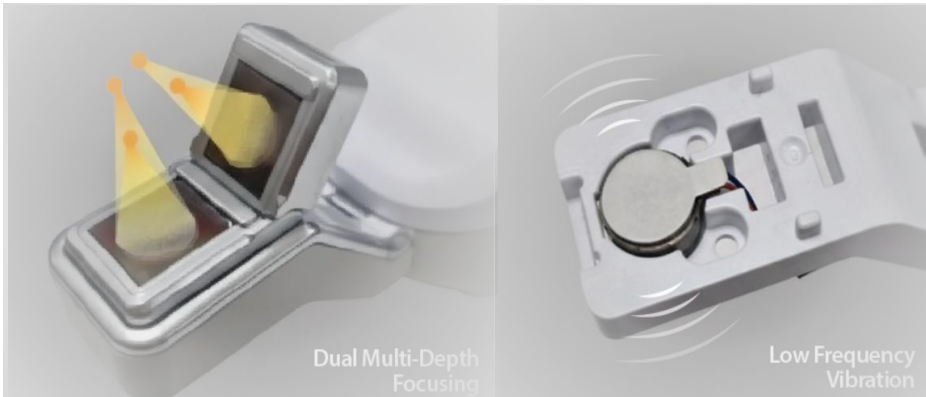


V-head Motion : **Lateral** – Rhythmic Scanning Focus
by Low-frequency Vibration



A Structure for **Lateral** Rhythmic Vibration Head

Brushless motor at the bezel base with a 1 Hz on–off duty cycle



The flexible V-head joint helps maintain stable coupling with the skin during rhythmic vibration.

Measurement for **Lateral** Rhythmic Low-frequency Vibration

Measured bezel motion under a 1 Hz brushless-motor on/off cycle



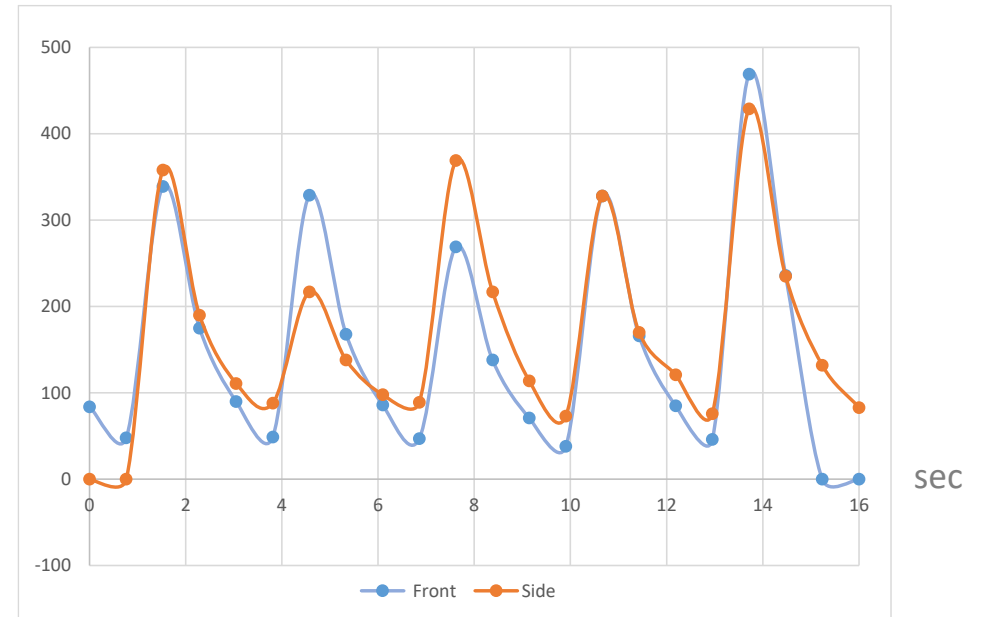
Bezel Side



Bezel Front

A dominant 0.3 Hz period is observed in the bezel motion.

Bezel Displacement (μm)

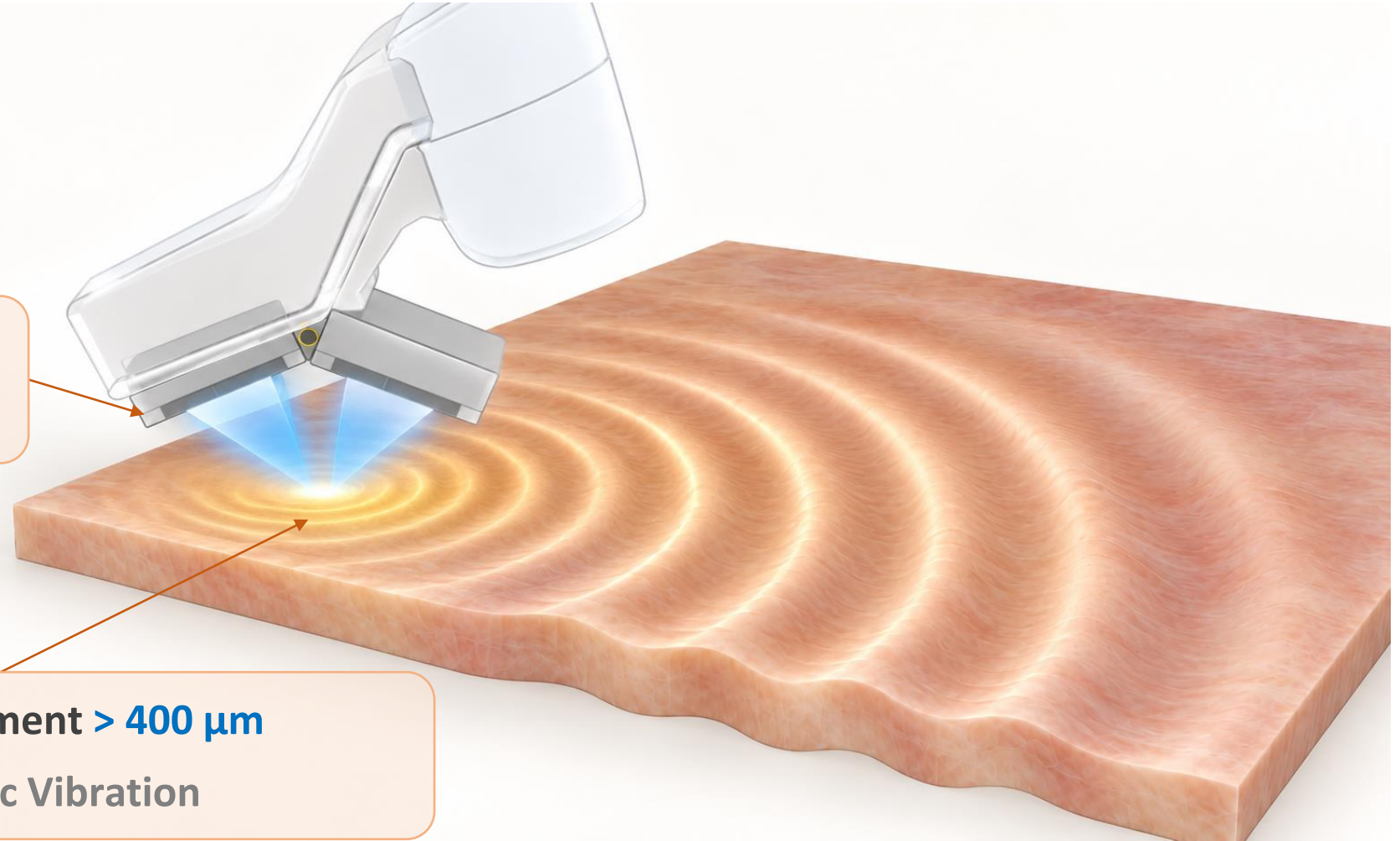


Front and side directions were measured separately ;
time axes aligned for comparison.

Lateral Rhythmic Scanning Focus Movement by Vibration

Test Results :
Bezel Move $\sim 400 \mu\text{m}$

Lateral Focus Movement $> 400 \mu\text{m}$
with 0.3 Hz Rhythmic Vibration



Experience 10 to 30 Minutes for a Premium Home-Spa

One seamless routine from face to body.

Glide gently along natural facial & body lines for an optimized, relaxing beauty routine.



STANDBY



APPLY ULTRASOUND GEL

[MODE 1] SEQUENTIAL

Sequential

Gentle multi-layer stimulation to enhance facial contours.

10 MINUTES · FOREHEAD · EYE CONTOUR · CHEEKS · JAWLINE



[MODE 2] LATERAL

Lateral

Structured firming motion along neck & shoulder lines.

10 MINUTES · NECK · JAWLINE · SHOULDERS



[MODE 3] CROSS

Cross

Deeper, wide-area stimulation for body & shoulder care.

10 MINUTES · ABDOMEN · WAIST · HIPS · THIGHS



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